EXHIBIT A
Appln. No. 10/606,618
Response to Office Action 08/05/05



Express Mail No. EU531587488US

UM/SBC147AUSA



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of) Group Art Unit: 1645

R. Judd et al.) Examiner: S. Devi

Appln. No. 09/994,192

Filed: November 26, 2001

For: OMP85 PROTEINS OF NEISSERIA GONORRHOEAE AND NEISSERIA MENINGITIDIS, COMPOSITIONS CONTAINING SAME AND METHODS

Commissioner for Patents Washington, DC 20231

DECLARATION UNDER 37 CFR § 1.132

Sir:

I, Ralph C. Judd, residing at 316 Wickiup, Florence, Montana, 59833, a citizen of the United States of America, do declare and state that:

- I am one of the named joint inventors of the subject matter claimed in the above-identified patent application
- 2. This Declaration is submitted in the above-identified application in response to the Examiner's rejection under 35 USC § 112, first paragraph in the Office Action dated July 17, 2002. The following information is provided to demonstrate that the isolated polypeptide of SEQ ID NO:4 or fragment thereof can provide a protective immune response in a subject against infection by N. meningitidis of N. gonorrhoeae.

1

Both of these related bacteria infect mammalian subjects through binding of the bacteria to epithelial cells.

- 3. That the following experiments were performed by me or under my direction and control.
- 4. Hyperimmune antisera were generated in rabbits via standard protocols to the following immunogens: (a) the first 178 amino acids of Omp85 (SEQ ID NO:4), which is a sequence substantially conserved in both Omp85 proteins of both N. meningitidis and N. gonorrhoeae; and (b) an unrelated antigen, bovine serum albumin (BSA). Normal rabbit serum (NRS) was used as the control. Fab fragments were prepared from all three antisera and added at 1 µg, 10 µg, or 100 µg per mL to wells containing a confluent layer of Chang conjunctival cells, which are standard representative mammalian epithelial cells. Approximately 2.5 x 10⁵ bacteria (transparent N. gonorrhoeae strains MS11LOSA or FA19) were added to each well and allowed to adhere for 3 hours. Following fixation and immunogold/silver staining, the number of adherent gonococci was determined for 22 cells. The lowest and highest numbers were discarded and the average number of bacteria/cells determined. These data were then plotted in bar graph form.
- 5. Exhibit A is a bar graph which illustrates the amount of bacterial cells (x 10⁴) present in each well after adherence, fixation, and staining. It is noted that Omp85-specific antibodies are able to bind to the surface of the bacteria and thereby interfere with the ability of the bacteria to adhere to the epithelial cells. It is necessary for the bacteria of N. meningitidis or N. genorrhoeae to bind epithelial cells to initiate infection. Thus, these assay results demonstrate that the Omp85-specific antibodies

SEQ ID NO:4 (N. meningitidis) differs from SEQ ID NO:2 (N. gonorrhoeae) at amino acid positions 82 (Gln or Leu, respectively), 89 (Glu or Val, respectively), and 90 (Arg or Cys,

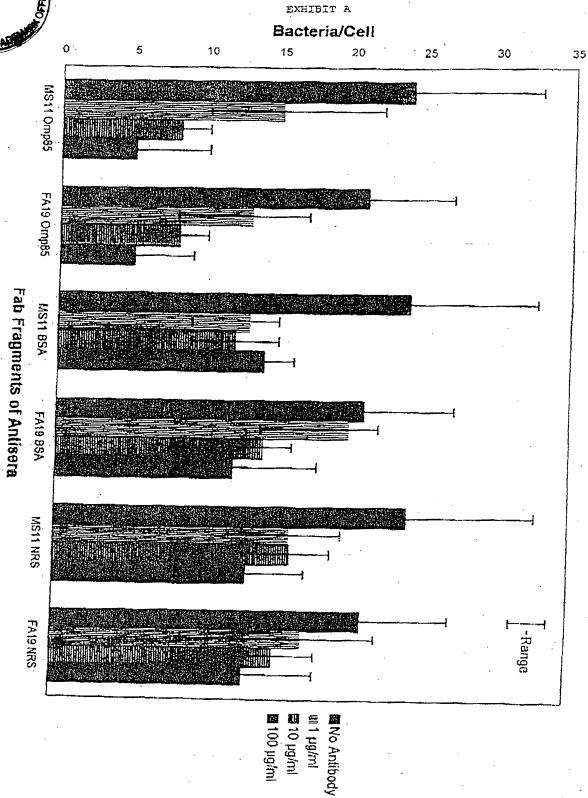
generated to a fragment of SEQ ID NO: 4 can block the infection-initiating step. These assay results indicate that this polypeptide can be used to generate antibodies in a mammal, and that such antibodies can interfere with the process by which the bacteria infects the epithelial cells of the mammalian subject to cause disease. Thus, the polypeptides and fragments of this invention can mediate a protective immune response to infection of a mammal by the bacteria.

6. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: 10/16/62

Ralph C. Judd, Ph.I





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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In ret	he Application of) Group Art Unit: 1641
Ralph	C. Judd et al) Examiner: S. Devi
Appln	. No.: 09/177,039) DERTIFICATE UNDER 37 CFR 1.3(a)) I hereby contry that this correspondence is being
Filed:	October 22, 1998) deposited with the United States Fostal Service as Inst) class mail, postage prepaid, on the date indicated below
For:	OMP85 PROTEINS OF NEISSERIA GONORHOEAE AND NEISSERIA MENINGITIDIS, COMPOSITIONS CONTAINING SAME AND METHODS OF USE THEREOF) in an envelope addressed to: Assistant Commissioner for) Parents, Wathington, DC 20231)) Signature C. Benealetto) Date 8-1-60

Assistant Commissioner for Patents Washington, DC 20231

DECLARATION

Sir:

The undersigned, RALPH C. JUDD, residing at 316 Wickiup, Florence, Montana 59833, a citizen of the United States, and D. SCOTT MANNING, residing at 2205 Westfield, Missoula, Montana 59801, a citizen of the United States, do declare and state that:

- 1. We are the named joint inventors of the subject matter claimed in the above-referenced patent application.
- 2. We understand that this Declaration is being submitted in the above-identified application to traverse the Examiner's rejection in the Office Action dated March 2, 2000 under 35 U.S.C. §102(a), and specifically to identify and distinguish the inventors from the coauthors.

- 3. DENNIS K. RESCHKE [hereinafter COAUTHOR] is a named co-author, together with Declarants, D. SCOTT MANNING and RALPH C. JUDD [hereinafter INVENTORS], of D. S. Manning et al, Miorobiol. Pathogen., 25:11-21 (July 1998).
- 4. COAUTHOR is not an inventor of the subject matter of the above-mentioned application. As a graduate student in Dr. Judd's laboratory at the University of Montana, the assignee of the above-identified application, COAUTHOR performed technical experiments at Dr. Judd's direction and under Dr. Judd's supervision.
- 5. INVENTORS did conceive and cause to be reduced to practice in the United States of America, the invention claimed in the subject application, as it relates to the Omp85 proteins of N. gonorrhoeae and N. meningitidis and its uses, prior to the effective reference date of D. S. Manning et al, Microbiol. Pathogen., 25:11-21 (July 1998).
- 7. All statements made herein of our own knowledge are true and all statements made on information and belief are believed to be true; these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the

United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 7/3//00

y: [a/h/

Date: 1/31/00

D. Scott Manning

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Omp85 comparisons

Protein sequences used:

Species	Strain	Genbank accession number
N.gonorrhoeae	FA1090	AAW90419
N.gonorrhoeae	FA19	AAC17600 (SEQ ID NO: 2 of appln)
N.meningitidis B	HH	AAC17599 (SEQ ID NO: 4 of appln)
N.meningitidis B	MC58	NP 273240
N.meningitidis A	Z2491	NP 282936

Identity percentage (computed with ClustalW program):

	FA19	НН	MC58	Z2491
FA1090	99	95	95	95
FA19		95	95	95
НН			99	99
MC58				99

011705 14050	*	20	*	40	*	60	
OMP85_MC58 :	MKLKQIASALMMLG	ISPLALADFTI	QDIRVEGLQ:	RTEPSTVFNY	LPVKVGDTYN	DTHGSA:	60
OMP85_Z249 :	MKLKQIASALMVLG	ISPLALADETI	QDIRVEGLQ	RTEPSTVFNY	LPVKVGDTYN	DTHGSA:	60
OMP85_HH :	MKLKQIASALMMLG	ISPLA <mark>T</mark> ADFTI	QDIRVEGLQ	RTEPSTVFNY	LPVKVGDTYN	DTHGSA :	60
OMP85_FA10 :	MKLKQIASALMMLG	ISPLAFADFTI	QDIRVEGLQ	RTEPSTVFNYI	LPVKVGDTYN	DTHGSA :	60
OMP85_FA19 :	MKLKQIASALMMLG	ISPLA F ADFTI	QDIRVEGLQ	RTEPSTVFNY	LPVKVGDTYN	DTHGSA :	60
		•					
	*	80	*	100	*	120	
OMP85_MC58 :	IIKSLYATGFFDDV	RVETADGÜLLI	TVIERPTIG	SLNITGAKML	ONDAIKKNLE	SFGLAO:	120
OMP85 Z249 :	IIKSLYATGFFDDV	RVETADGÖLLI	TVIERPTIG	SLNITGAKML	ONDAIKKNLE	SFGLAO :	120
OMP85 HH :	IIKSLYATGFFDDV:	RVETADGÖLLI	TVIERPTIG	SLNITGAKML(- ONDAIKKNLE	SFGLAO:	120
OMP85 FA10:	IIKSLYATGFFDDV	RVETADGÖLLI	TVIERPTIG	SLNITGAKML(ONDAIKKNLE	SFGLAO:	120
OMP85 FA19 :	IIKSLYATGFFDDV	RVETADG <mark>L</mark> LLI	TVIVERTIG	SLNITGAKMLO	ONDATKKNLE	SEGLAO	120
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	*	140	*	160	*	180	
OMP85 MC58 :	* SOYFNOATINOAVA	140 GLKEEYLGRGK		160 TKLARNRVDII	*	180	100
OMP85_MC58 :	* SQYFNQATLNQAVA SOYFNOATLNOAVA	GLKEEYLGRGK	CLNIQITPKV	rklarnrvdi:		KITDIE :	180
OMP85_Z249 :	SQYFNQATLNQAVA	GLKEEYLGRGK GLKEEYLGRGK	(LNIQITPKV) (LNIQITPKV)	TKLARNRVDII TKLARNRVDII	DITIDEGKSA	KITDIE : KITDIE :	180
OMP85_Z249 : OMP85_HH :	SQYFNQATLNQAVA SQYFNQATLNQAVA	GLKEEYLGRGK GLKEEYLGRGK GLKEEYLGRGK	(LNIQÏTPKV (LNIQITPKV (LNIQITPKV)	TKLARNRVDII TKLARNRVDII TKLARNRVDII	DITIDEGKSA DITIDEGKSA	KITDIE : KITDIE : KITDIE :	180 180
OMP85_Z249 : OMP85_HH : OMP85_FA10 :	SQYFNQATLNQAVA SQYFNQATLNQAVA SQYFNQATLNQAVA	GLKEEYLGRGK GLKEEYLGRGK GLKEEYLGRGK GLKEEYLGRGK	(LNIQITPKV (LNIQITPKV (LNIQITPKV (LNIQITPKV)	TKLARNRVDII TKLARNRVDII TKLARNRVDII TKLARNRVDII	DITIDEGKSA DITIDEGKSA DITIDEGKSA	KITDIE : KITDIE : KITDIE : KITDIE :	180 180 180
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OMP85_Z249 : OMP85_HH : OMP85_FA10 : OMP85_FA19 : OMP85_MC58 :	SQYFNQATLNQAVAG SQYFNQATLNQAVAG SQYFNQATLNQAVAG SQYFNQATLNQAVAG *	GLKEEYLGRGK GLKEEYLGRGK GLKEEYLGRGK GLKEEYLGRGK GLKEEYLGRGK 200 QMSLTEGGIWT	LNIQITPKV' LNIQITPKV' LNIQITPKV' LNIQITPKV' (LNIQITPKV' * WLTRSNOFN	IKLARNRVDII IKLARNRVDII IKLARNRVDII IKLARNRVDII IKLARNRVDII 220	DITIDEGKSA DITIDEGKSA DITIDEGKSA DITIDEGKSA * * /TDFYQNNGY	KITDIE: KITDIE: KITDIE: KITDIE: KITDIE: CARONICOLUMN STANCOLUMN ST	180 180 180 180
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OMP85_Z249 : OMP85_HH : OMP85_FA10 : OMP85_FA19 : OMP85_MC58 : OMP85_Z249 : OMP85_HH :	SQYFNQATLNQAVAG SQYFNQATLNQAVAG SQYFNQATLNQAVAG SQYFNQATLNQAVAG * FEGNQVYSDRKLMRG FEGNQVYSDRKLMRG FEGNQVYSDRKLMRG	GLKEEYLGRGK GLKEEYLGRGK GLKEEYLGRGK GLKEEYLGRGK GLKEEYLGRGK 200 QMSLTEGGIWT QMSLTEGGIWT	LNIQITPKV' LNIQITPKV' LNIQITPKV' LNIQITPKV' (LNIQITPKV' * WLTRSNOFN WLTRSNOFN	IKLARNRVDII IKLARNRVDII IKLARNRVDII IKLARNRVDII IKLARNRVDII 220 QKFAQDMEKV	DITIDEGKSA DITIDEGKSA DITIDEGKSA DITIDEGKSA W * /TDFYQNNGY /TDFYQNNGY /TDFYQNNGY	KITDIE: KITDIE: KITDIE: KITDIE: KITDIE: KITDIE: FDFRIL: FDFRIL: FDFRIL:	180 180 180 180 240 240 240
OMP85_Z249 : OMP85_HH : OMP85_FA10 : OMP85_FA19 : OMP85_MC58 : OMP85_Z249 :	SQYFNQATLNQAVAG SQYFNQATLNQAVAG SQYFNQATLNQAVAG SQYFNQATLNQAVAG * FEGNQVYSDRKLMRG FEGNQVYSDRKLMRG	GLKEEYLGRGK GLKEEYLGRGK GLKEEYLGRGK GLKEEYLGRGK 200 QMSLTEGGIWT QMSLTEGGIWT QMSLTEGGIWT	LNIQITPKV' LNIQITPKV' LNIQITPKV' LNIQITPKV' (LNIQITPKV' WLTRSNOFN WLTRSNOFN WLTRSNOFN	IKLARNRVDII IKLARNRVDII IKLARNRVDII IKLARNRVDII IKLARNRVDII 220 QKFAQDMEKV QKFAQDMEKV	DITIDEGKSA DITIDEGKSA DITIDEGKSA DITIDEGKSA VTDFYQNNGY VTDFYQNNGY VTDFYQNNGY VTDFYQNNGY VTDFYQNNGY	KITDIE: KITDIE: KITDIE: KITDIE: KITDIE: KITDIE: FDFRIL: FDFRIL: FDFRIL: FDFRIL:	180 180 180 180 240

OMP85_HH : DTDIQTNEDKTKQTIKITVHEGGRFRWGKVSIEGDTNEVPKAELEKLLTMKPGKWYERQQ OMP85_FA10 : DTDIQTNEDKTRQTIKITVHEGGRFRWGKVSIEGDTNEVPKAELEKLLTMKPGKWYERQQ OMP85_FA19 : DTDIQTNEDKTRQTIKITVHEGGRFRWGKVSIEGDTNEVPKAELEKLLTMKPGKWYERQQ	:	300 300 300
* 320 * 340 * 360 OMP85_MC58: MTAVLGEIQNRMGSAGYAYSEISVQPLPNAETKTVDFVLHIEPGRKIYVNEIHITGNNKT OMP85_Z249: MTAVLGEIQNRMGSAGYAYSEISVQPLPNAETKTVDFVLHIEPGRKIYVNEIHITGNNKT OMP85_HH: MTAVLGEIQNRMGSAGYAYSEISVQPLPNAETKTVDFVLHIEPGRKIYVNEIHITGNNKT OMP85_FA10: MTAVLGEIQNRMGSAGYAYSEISVQPLPNAGTKTVDFVLHIEPGRKIYVNEIHITGNNKT OMP85_FA19: MTAVLGEIQNRMGSAGYAYSEISVQPLPNAGTKTVDFVLHIEPGRKIYVNEIHITGNNKT	: : : : : : : : : : : : : : : : : : : :	360 360 360 360 360
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OMP85_MC58: DGVSLGYDVYGKAFDPRKASTSIKQYKTTTAGAGIRMSVPVTEYDRVNFGLVAEHLTVNTOMP85_Z249: DGVSLGYDVYGKAFDPRKASTSIKQYKTTTAGAGIRMSVPVTEYDRVNFGLVAEHLTVNTOMP85_HH: DGVSLGYDVYGKAFDPRKASTSIKQYKTTTAGAGIRMSVPVTEYDRVNFGLVAEHLTVNTOMP85_FA10: DGVSLGYDIYGKAFDPRKASTSVKQYKTTTAGGGVRMGIPVTEYDRVNFGLAAEHLTVNTOMP85_FA19: DGVSLGYDIYGKAFDPRKASTSVKQYKTTTAGGGGVRMGIPVTEYDRVNFGLAAEHLTVNTOMP85_FA19: DGVSLGYDIYGKAFDPRKASTSVKQYKTTTAGGGGVRMGIPVTEYDRVNFGLAAEHLTVNTOMP85_FA19: DGVSLGYDIYGKAFDPRKASTSVKQYKTTTAGGGGVRMGIPVTEYDRVNFGLAAEHLTVNTOMP85_FA19: DGVSLGYDIYGKAFDPRKASTSVKQYKTTTAGGGGVRMGIPVTEYDRVNFGLAAEHLTVNTOMP85_FA19: DGVSLGYDIYGKAFDPRKASTSVKQYKTTTAGGGGVRMGIPVTEYDRVNFGLAAEHLTVNTOMP85_FA19: DGVSLGYDIYGKAFDPRKASTSVKQYKTTTAGGGGVRMGIPVTEYDRVNFGLAAEHLTVNTOMP85_FA19: DGVSLGYDIYGKAFDPRKASTSVKQYKTTTAGGGGVRMGIPVTEYDRVNFGLAAEHLTVNTOMP85_FA19: DGVSLGYDIYGKAFDPRKASTSVKQYKTTTAGGGGVRMGIPVTEYDRVNFGLAAEHLTVNTOMPA19: DGVSLGYDIYGKAFDPRKASTSVKQYKTTTAGGGGVRMGIPVTEYDRVNFGLAAEHLTVNTOMPA19: DGVSLGYDIYGKAFDPRKASTSVKQYKTTTAGGGGVRMGIPVTEYDRVNFGLAAEHLTVNTOMPA19: DGVSLGYDIYGHTAGATAGATAGATAGATAGATAGATAGATAGATAGATA	: : : : : : : : : : : : : : : : : : : :	540 540 540 540 540
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* 620 * 640 * 660 OMP85_MC58 : LPGSKLQYYSATHNQTWFFPLSKTFTLMLGGEVGIAGGYGRTKEIPFFENFYGGGLGSVR OMP85_Z249 : LPGSKLQYYSATHNQTWFFPLSKTFTLMLGGEVGIAGGYGRTKEIPFFENFYGGGLGSVR OMP85_HH : LPGSKLQYYSATHNQTWFFPLSKTFTLMLGGEVGIAGGYGRTKEIPFFENFYGGGLGSVR OMP85_FA10 : LPGSKLQYYSATHNQTWFFPLSKTFTLMLGGEVGIAGGYGRTKEIPFFENFYGGGLGSVR OMP85_FA19 : LPGSKLQYYSATHNQTWFFPLSKTFTLMLGGEVGIAGGYGRTKEIPFFENFYGGGLGSVR	: :	660 660 660 660

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		*	680	*	700	*	720		
OMP85_MC58	:	GYESGTLGPKVY	DEYGEKISYGG	NKKANVSAELLF	PMPGAKDAR	TVRLSLFADAG		:	720
OMP85_Z249	:	GYESGTLGPKVY	DEYGEKISYGG	NKKANVSAELLF:	PMPGAKDAR	TVRLSLFADAG	SVWDG	:	720
OMP85_HH	:	GYESGTLGPKVY	DEYGEKISYGG	NKKANVSAELLF:	PMPGAKDAR	TVRLSLFADAG	SVWDG	:	720
OMP85_FA10	:	GYESGTLGPKVY	DEYGEKISYGG	NKKANVSAELLF:	PMPGAKDAR	TVRLSLFADAG	SVWDG	:	720
OMP85_FA19	:	GYESGTLGPKVY	DEYGEKISYGG	NKKANVSAELLF:	PMPGAKDAR'	TVRLSLFADAG	SVWDG	:	720
					-				
		*	740	*	760	*	780		
OMP85_MC58	:	* KTYDDNS <mark>S</mark> ATG	GRVQNIYGAGN	* THKSTFTNELRY	SAGGAVTWL	SPLGPMKF S YA	YPLKK	:	780
OMP85_Z249	:	KTYDDNSSSATG	G <mark>RVQN</mark> IYGAGN GRVQNIYGAGN	THKSTFTNELRY:	SAGGAVTWL: SAGGAVTWL:	SPLGPMKF S YA SPLGPMKF S YA	YPLKK YPLKK	•	780 780
OMP85_Z249 OMP85_HH	:	KTYDDNSSSATG KTYDDNSSSATG	G <mark>RVON</mark> IY GAG N GRVONIYGAGN G <mark>RVON</mark> IY GAG N	THKSTFTNELRY: THKSTFTNELRY:	SAGGAVTWL SAGGAVTWL SAGGAVTWL:	SPLGPMKF <mark>S</mark> YA SPLGPMKF <mark>S</mark> YA SPLGPMKF R YA	YPLKK YPLKK YPLKK	:	
OMP85_Z249 OMP85_HH OMP85_FA10	:	KTYDDNSSSATG KTYDDNSSSATG RTYT <mark>A</mark> AEN	GRVON IYGAGN GRVON IYGAGN GRVON IYGAGN GNNKSVY-SEN	THKSTFTNELRY: THKSTFTNELRY: AHKSTFTNELRY:	SAGGAVTWL: SAGGAVTWL: SAGGAVTWL: SAGGAVTWL:	SPLGPMKF <mark>S</mark> YA SPLGPMKF S YA SPLGPMKF R YA SPLGPMKF <mark>S</mark> YA	YPLKK YPLKK YPLKK YPLKK	:	780
OMP85_Z249 OMP85_HH	:	KTYDDNSSSATG KTYDDNSSSATG RTYT <mark>A</mark> AEN	GRVON IYGAGN GRVON IYGAGN GRVON IYGAGN GNNKSVY-SEN	THKSTFTNELRY: THKSTFTNELRY:	SAGGAVTWL: SAGGAVTWL: SAGGAVTWL: SAGGAVTWL:	SPLGPMKF <mark>S</mark> YA SPLGPMKF S YA SPLGPMKF R YA SPLGPMKF <mark>S</mark> YA	YPLKK YPLKK YPLKK YPLKK	:	780 780

OMP85_MC58 : KPEDEIQRFQFQLGTTF : 797 OMP85_Z249 : KPEDEIQRFQFQLGTTF : 797 OMP85_HH : KPEDEIQRFQFQLGTTF : 797 OMP85_FA10 : KPEDEIQRFQFQLGTTF : 792 OMP85_FA19 : KPEDEIQRFQFQLGTTF : 792

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